

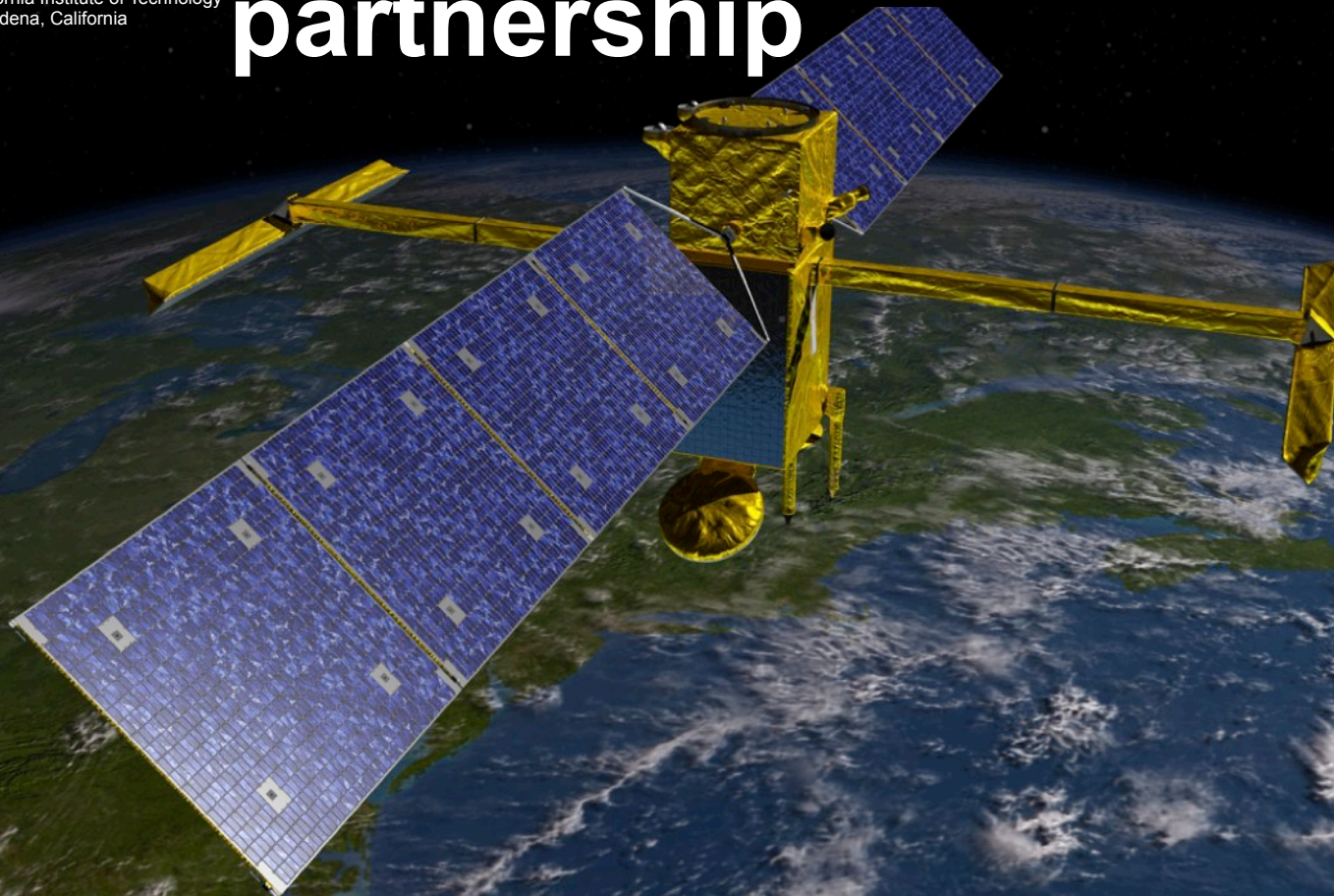


National Aeronautics and
Space Administration

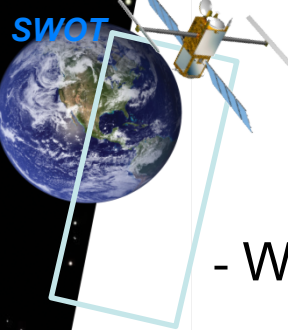


Jet Propulsion Laboratory
California Institute of Technology
Pasadena, California

Leveraging international partnership



This document has been reviewed and determined not to contain export controlled technical data.
Not for Public Release or Redistribution.



Leveraging international partnership

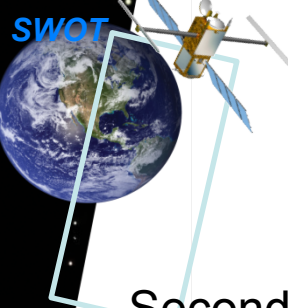
- Why should we leverage international partnership ?

I intimately think that the main reason for leveraging international partnership is because SWOT is primarily a SCIENCE mission dedicated to a key question (the water cycle) for humanity.

And as a science mission, it must benefit to the largest community, as rapidly as possible.

And as a totally new tool for hydro-monitoring, it is clearly a non-trivial task to convince people that it will benefit to them

Hence, we must not wait for the knowledge/expertise to diffuse slowly in the scientific and stakeholder communities, as usual, we must be much more pro-active.

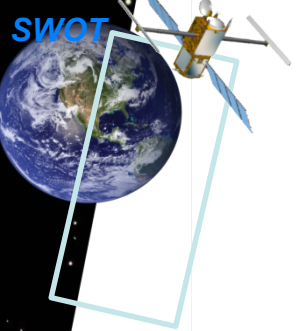


Leveraging international partnership

Second, I mentionned the question of ground measurement for CalVal

We, as members of the SWOT ST, need international collaboration to conduct an ambitious validation programme that is not limited to our countries.

Consequently, international leverage is not just an option, it is an evidence for mutual benefit, a win-win strategy



Leveraging international partnership

The first task engaged for international leveraging
is the South America group

Kick off meeting at Rio de Janeiro, June 2015

-6 projects were born after this meeting

- Science
- Water Sharing Policy
- Education / training
- Cal / Val
- Climate Change

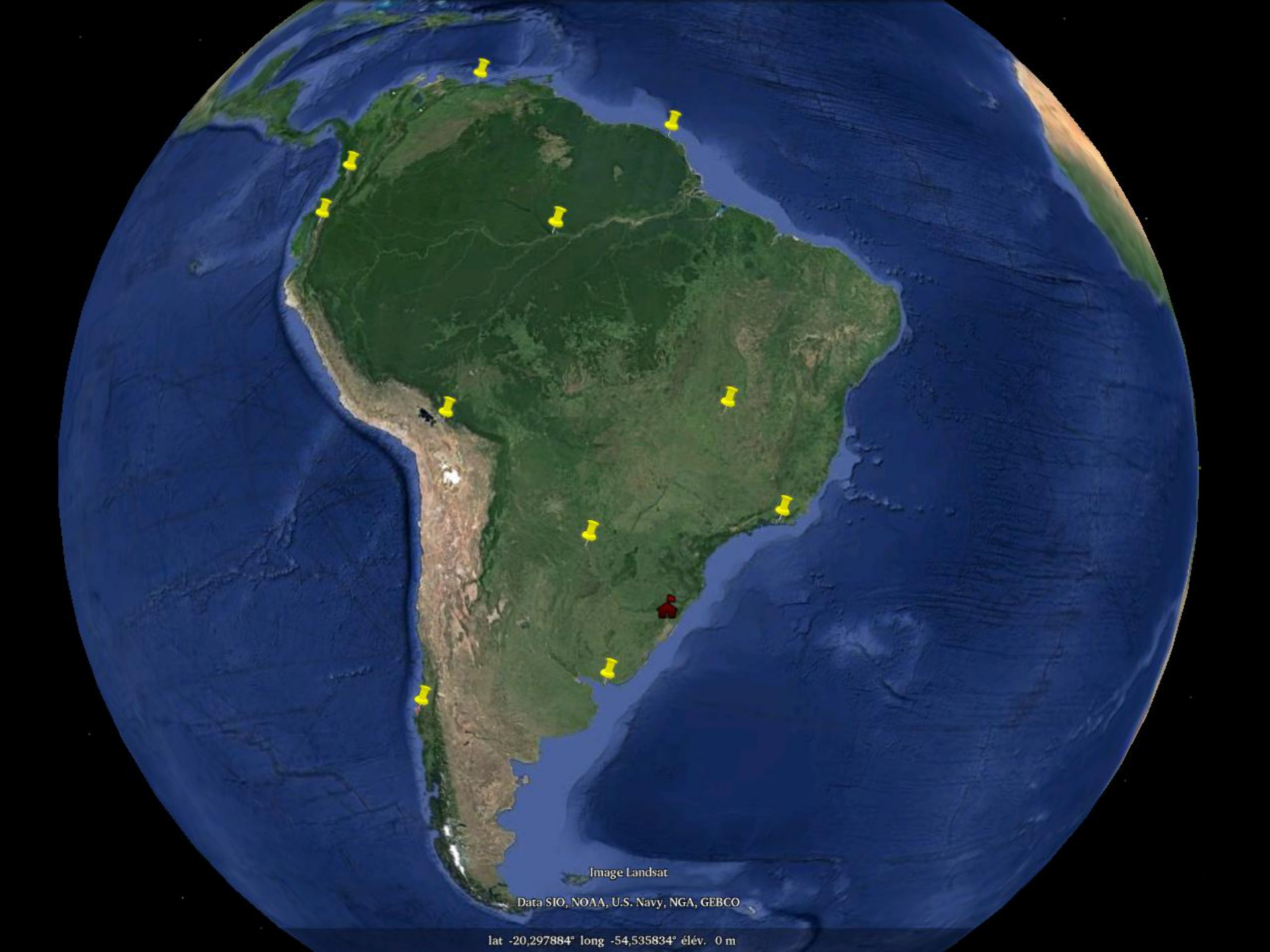
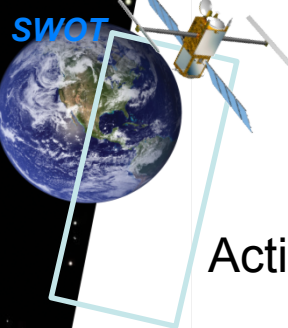
A satellite map of South America, showing the continent's green landmass against the blue oceans. The map is centered on the continent, with the Atlantic Ocean to the east and the Pacific Ocean to the west. Several yellow pushpins are placed along the coastlines and in the interior of the continent. A single red pushpin is located on the southeastern coast of Brazil. The map is framed by a black border, suggesting it is a view from space.

Image Landsat

Data SIO, NOAA, U.S. Navy, NGA, GEBCO

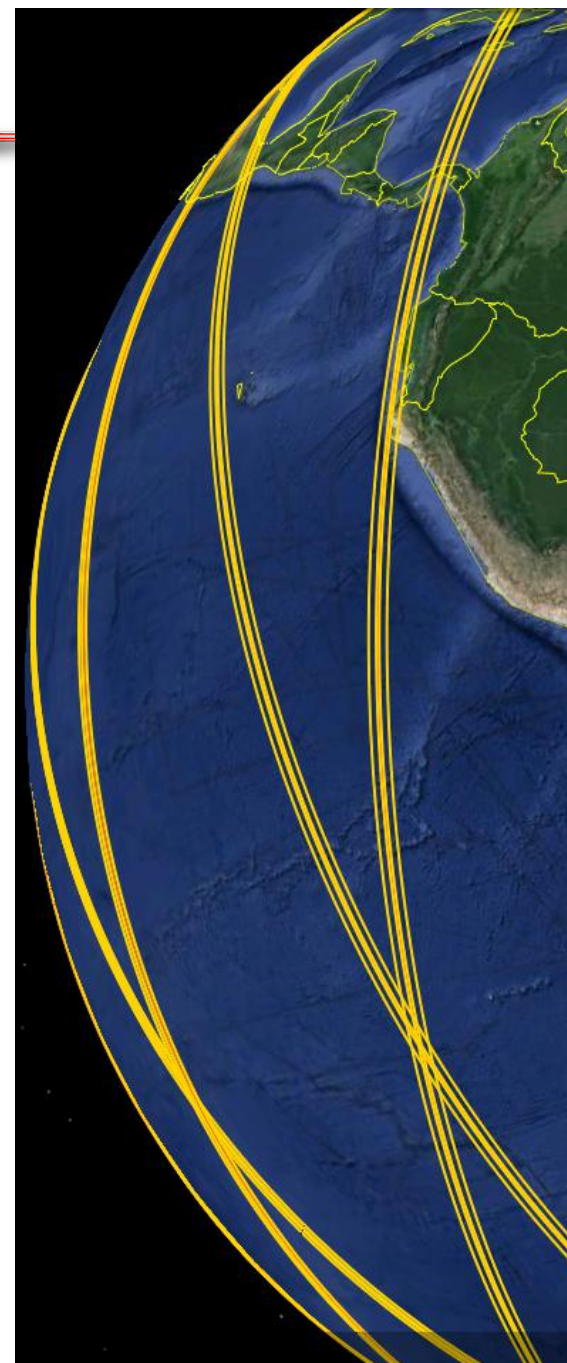
lat -20,297884° long -54,535834° élév. 0 m

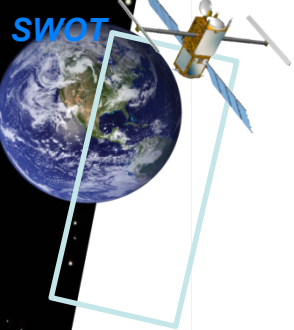


Leveraging international partnership

Activity for 2016 :

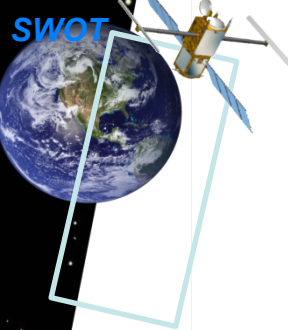
- Participation to the ST team in Pasadena
- Visit of S. Am Researchers in Toulouse
- Training in Sat Altim. By Brazilian Prof. to Uruguay colleagues
- Class in Hydrological modelling within the group
- Joint organization of Pre-launch campaigns for Cal/Val
 - in Negro river and Pantanal-Paraguay
- Start of Master and PhD studies
- Seek for funding local and international calls.....





Next meeting in Concepcion, Chile, November, 28-29th

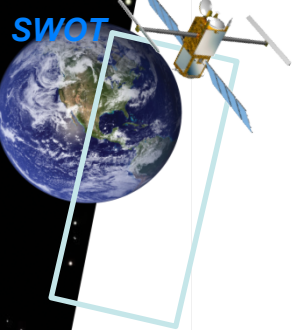
Anyone interested in working in South America together with South Am. colleagues, set up new projects or participate to existing ones are welcome



Leveraging international partnership

Other ongoing activities for international leverage :

- Discussion have started with Basin Agencies in Africa for collaboration including:
 - Training in Hydrology from Space
 - develop databases with existing products
 - write MOU for in-situ data become available for SWOT
- Niger Basin (ABN) could become a Pilot basin
- Congo (CICOS) as a test case of almost ungauged basin



Other plans are towards the SAARC countries,
joining Fr & US efforts in this part of the world
I guess that some of you have ideas/contacts, etc
that we could push forward to enlarge the SWOT
community. If so,

Contact me at stephane.calmant@ird.fr